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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/604,883	08/25/2003	Chien-Shen Wung	10766-US-PA	1882
31561	7590 06/26/2006		EXAMINER	
JIANQ CHYUN INTELLECTUAL PROPERTY OFFICE 7 FLOOR-1, NO. 100 ROOSEVELT ROAD, SECTION 2			TUROCY, DAVID P	
			ART UNIT	PAPER NUMBER
TAIPEI,	TAIPEI, 100			
TAIWAN		DATE MAILED: 06/26/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
· · · · · · · · · · · · · · · · · · ·		10/604,883	WUNG ET AL.		
	Office Action Summary	Examiner	Art Unit		
		David Turocy	1762		
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address		
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATES of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period we re to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 66(a). In no event, however, may a reply be time fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	the mailing date of this communication.  O (35 U.S.C. § 133).		
Status					
,	Responsive to communication(s) filed on <u>30 Marths</u> This action is <b>FINAL</b> . 2b) This Since this application is in condition for alloward closed in accordance with the practice under <i>E</i>	action is non-final.  ace except for formal matters, pro-			
Dispositi	on of Claims		•		
5)⊠ 6)⊠ 7)□ 8)□	Claim(s) 1-20 is/are pending in the application.  4a) Of the above claim(s) is/are withdray Claim(s) 1-8 and 10-19 is/are allowed.  Claim(s) 9 and 20 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or  ton Papers	vn from consideration.			
	•	_			
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction to the oath or declaration is objected to by the Examine	epted or b) objected to by the formal drawing (s) be held in abeyance. See ion is required if the drawing (s) is objected to by	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority ι	ınder 35 U.S.C. § 119				
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachman	· */c\				
2)  Notic 3) Infor	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	· ·		

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#### **DETAILED ACTION**

## Response to Amendment

1. Applicant's amendments, filed 5/30/2006, have been fully considered and reviewed by the examiner. The examiner notes the amendments to claims 2, 9, 13, and 20. Claims 1-20 remain pending the in the instant application.

## Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the first paragraph of 35 U.S.C. 112:
  - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 3. Claims 9 and 20 rejected under 35 U.S.C. 112; first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The claims include "diameter" of the silicon seed is 0.5 to 1 micron, however, the specification does not describe the size of the seed layer as the diameter, therefore such a limitation adds new matter that was not present at the time of filing.

### Allowable Subject Matter

- 4. Claims 1-8,10-19 are allowed.
- 5. The following is a statement of reasons for the indication of allowable subject matter: None of the prior art cited or reviewed by the examiner, alone or in combination,

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discloses the method of controlling the seed position by forming the layers as claimed, specifically oblique evaporating the second metal layer onto a first metal layer, wherein each of the first and second metal layers include a plurality of continuous openings to the substrate, with subsequent removal of the first and second metal layers.

The closest prior art for silicon seeds, US Patent 5447117, discloses accurately controlling the plurality of seeds on the substrate, but fails to suggest a masking method as claims.

The closest prior art for masking, US Patent 4256816 by Dunkleberger and US Patent 4448797 by Burnham disclose masking using a similar masking structure and subsequent removal of structure, but fails to suggest oblique evaporation and/or control of crystal seed deposition.

#### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Turocy whose telephone number is (571) 272-2940. The examiner can normally be reached on Monday-Friday 8:30-6:00, No 2nd Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks can be reached on (571) 272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

David Turocy Au 1762

TIMOTHY MEEKS
SUPERVISORY PATENT EXAMINER